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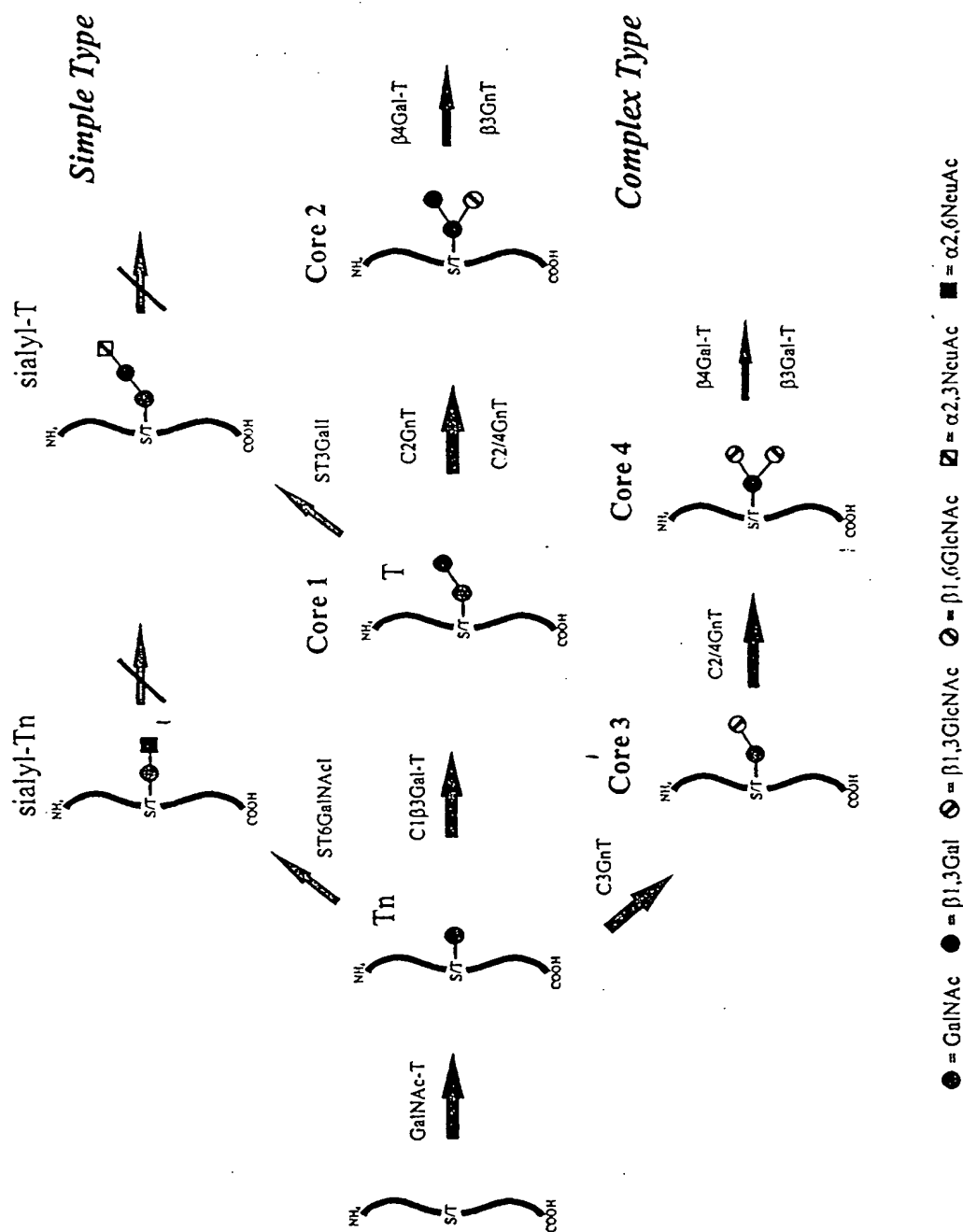
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Fig. 1



16	CTATTATATCTCCTCCGACATPACTTCTCTGAGTCAGAGGCTCTTCTCTTAAGTCACGGGAACCTGCCCTTGTCTACTTGTGACCTGCCCTTTACTCAGCAGCTTGTGCTTCTTCT	1	ATTAACCTGGGTTTTC	15
136	CTGGATTCTGCTATACCTATCAGCTAGTGTGAAGGAAACAGATGAAAGATGACTTCTGAGGAGTCTCTGCTAATGAGAAACAGCTACGGCTGGCAAGATATTAAAGC			133
256	GGAGCTGAAATCTTCTTGGACATCTTATGAATCTCAGAAATACCTTTTGGAGGGTTAGAGATCAGGAGATGTTTGCATATTGTGCGCAGAACCCGCCAGCTCTTCACT			255
376	TGAAACAGCATCAGCCCTTGTGAAGAGATCATCCCTAAGCAGGAGAGGCTACTAAAGATTGTGTCTCTCCACCTTCCCGTGTCTCCACCTGTCTCCCATCTCTGTGTGAGC			375
				495
1	M V Q W K R L C Q L H Y L W A L G C Y M L L A T V A L K L S F R L K C D S D H L			40
496	ATGGTTCAATGGAGAGACTCTGCCAGCTGCATTACTTGTGGGCTCTGGGCTGCTATATGCTGTGCCACTGTGGCTTGAACATTTCTTTCAGGTTGAAGTGTGACTCTGACCACTTG			615
41	G L E S R E S Q S Q Y C R N I L Y N F L K L P A K R S I N' C S G V T R G D Q E A			80
616	GGTCTGGAGTCAGGGAATCTCAAAGCCAGTACTGTAGGAATATCTGTATATTTCTCGAAACTTCCAGAAAGAGTGCTATCAACTGTTCAGGGGTACCCGAGGGGACCAAGAGGCA			735
81	V L Q A I L N N L E V K K R E P F T D T H Y L S L T R D C E H F K A E R K F I			120
736	GTGCTTCAAGCTATTCTGAATAACCTGGAGGTCAAGAAAGCGAGAGGCTTTCACAGACACCCACTACCTCTCCCTCACCAGAGACTGTGAGCACTTCAAGGCTGAAGGAAGTTCATA			855
121	Q F P L S K E E V E F P I A Y S M V I H E K I E N F E R L L R A V Y A P Q N I Y			160
856	CAGTTCCCACTCAGCAAAAGAGGTGGAGTTCCTATTGTCATCTCTATGTTGATTCATGAGAAGATTGAAACTTTGAAAGGCTACTCGGAGCTGTGTATGCCCTCAGAACATATAC			975
161	C V H V D E K S P E T F K E A V K A I I S C F P N V F I A S K L V R V V Y A S W			200
976	TGTGTCCATGTGGATGAGAGTCCCCAGAAACTTTCAAAGAGCGGCTCAAAGCAATTTATTTCTTCTCCCAATGTCTTCATAGCCAGTAAGCTGGTTCGGGTGGTTTATGCCCTCCTGG			1095
201	S R V Q A D L N C M E D L L Q S S V P W K Y F L N T C G T D F P I K S N A E M V			240
1096	TCAGGGTGCAGCTGACCTCAACTGCATGGAGACTTGCTCCAGAGCTCAGTGCCTGGAAATACTTCTCGAATACATGTGGGAGGAGCTTTCCTATAAAGAGCAATGCAGAGATGGTC			1215
241	Q A L K M L N G R N S M E S E V P P K H K E T R W K Y H F E V V R D T L H L T N			280
1216	CAGGCTCTCAAGATGTTGAATGGGAGGAATAGCATGGAGTACCTCTCAACCAAGAAACCCGCTGGAAATATCACTTTGAGGTAGTGAGAGACACATTACACCCTAACCAAC			1335
281	K K K D P P P Y N' L T M F T G N A Y I V A S R D F V Q H V L K N P K S Q Q L I E			320
11336	AAGAAGAGGATCCTCCCCCTTATAATTAACTATGTTTACAGGGAATGGGTACATTGTGGCTTCCCAGATTTTCGTCCAACATGTTTTCGAAGAACCCCTAAATCCCAACAACATGATGAA			1455
321	W V K D T Y S P D E H L W A T L Q R A R W M P G S V P N H P K Y D I S D M T S I			360
14156	TGGTAAAGACACTTATAGCCAGATGACACCCCTCGGCCACCCCTCAGCGTGACGGTGGATGCCTGGCTGTGTTCCCAACCCAGTACGACATCTCAGACATGACATCTCTATT			1575
361	A R L V K W Q G H E G D I D K G A P Y A P C S G I H Q R A I C V Y G A G D L N W			400
11576	GCCAGGCTGGTCAAGTGGCAGGTCATGAGGAGACATCGATAAGGGTCTCCTTTATGCTCCCTGCTCTGGAAATCCACCAGCGGGCTATCTGCCTTTATGGGCTGGGACITGTAATTGG			1695
401	M L Q N H H L L A N K F D P K V D D N A L Q C L E E Y L R Y K A I Y G T E L *			438
11696	ATGCTTCAAAACCATCACCTGTTGGCCAAACAAGTTTGACCAAAAGGTAGATGATAATGCTCTTCAAGTCTTGAAGAATACCTACGTTTAAAGGCCATCTATTGGGACATGAACTTTGAGAC			1815
1816	ACACTATGAGAGGGTTGCTACCTGTGGGCAAGACATGTACAACATGCTCAGAACTTGTCTGGACAGTGTGGGTGGGAGACCAGGGCTTTGCAATTCGTGGCATCCTTTTAGGATAAGA			1935
1936	GGGCTCTATTAGATTCTGGTNAGTAGATCTTTTGCCCTTGCAAAATGCTGCCCTGGGTGAATGCTGTCTCTCAGCCCTAACCTAGTACTTCTCCATCAACTTTCTCACTAAGT			2055
202056	GAGAAATGAGAACTCTGTATAGGAGAGTGAAGAGGGATATGTGTGAGACACTTGAATTTAGTTGAAATGCCCTGCTGGTAGCTTTTCCATCTCTGTGGAGCTGCCGTTTCCCTAATAATTC			2175
22176	CAGGTTTGGTAGCGTGGAGGAGAACTTCCCTTCTGTACTGTTAACTTTAAATAAATAGCTCTCGATTCAAAAGTATTTACTCTACTTTTTTGGCCTAGTATGCC			2295
2296	AGAAATAATATAAATCTAAACAGA			2319

C2/4Gnt : MVQWKRICQLHYLWALGCYMLLATVALKLSERLKCDSHDHIGLESRESQSQCYNILYNFLKLEAKRSINCSGVTRGQAEAVLQAI : 85
C2Gnt : --MLRTLLRRRLFSYPTKVFEMVLVLSLITFSV-----LRIHQKP---EFVSVRHLELAGENPSSDINCTKVLQGDVNEIQVK : 74
IGnt : -----MPLSMRYLFIISVSSVIIIFIV-----FSVFNEGGDESFQRLNISDPLR-----LTQVC : 48

C2/4Gnt : LNNLEVRKKREP-FTDTHYLSLTRDCEHEHKAERKEIQFPLSKEEVEFPPTAYSMVHEHEKIENETERRAVYAPQNIYCVHVDEKSP : 169
C2Gnt : LEILITVKFKRFRFTPPDDYINMFSDCSSEFIKRRKYIIVEPLSKEEAEPPLAYSIVVHHKIEMLDRILIRATYMPQNFYCVHVDTKSE : 159
IGnt : TSFING--KTRFLMKNKLMTHEKSSCKEYLTQSHYITAPLSKEEADEPLAYIMVLHHHFDTEARLEIRATYMPQNIYCVHVDEKAT : 131

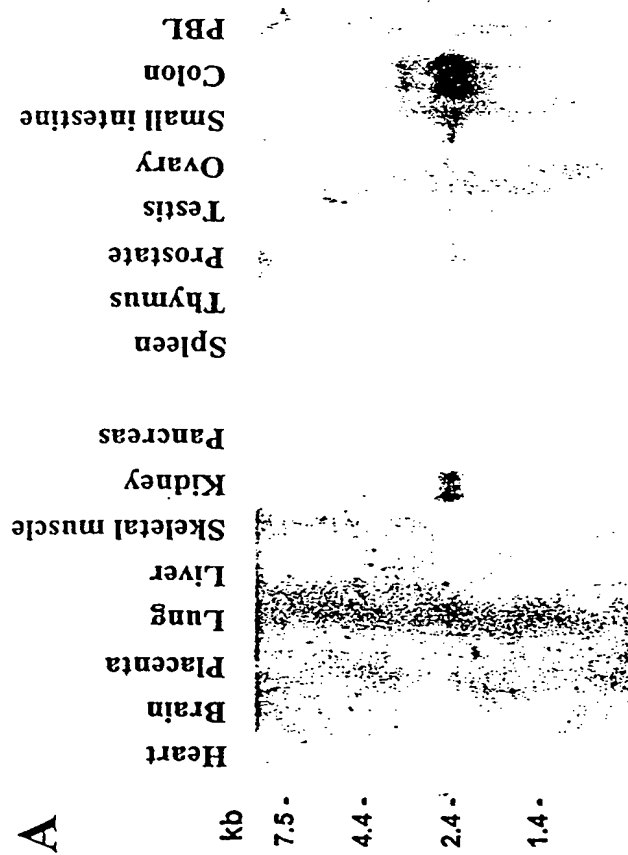
C2/4Gnt : ETRKAVKAIISCFENMFIASKIVRVVYASVSRVQADLNCMEDLLQSSVPMKYFLNHCCTDEFFKSNAEVQALKMINGRNSMES : 254
C2Gnt : DSYLAAMGIIASCFSNIFVASRLESVVYASVSRVQADLNCMKDLYAMSANWKYLLNLCGMDEPKTNLEIVRKLKLLMGENNLET : 244
IGnt : TERKDAVEQILLSCFENAEFLASKMEPVVYGGISRLQADLNCIRDLSAFEVSWKYVILNHCQODEPLKHINKELVQYLYKGFKNITPG : 216

C2/4Gnt : EVRPKHKEETRNKY-HFEVVRDTHL---LTNKKKDEPPYALITMFTGNAYIVA SRDEVQHVLKNKKSQOLIEWVKDTYSPDEHIMAT : 335
C2Gnt : ERMPSHKEERWK-KRYEWNCKLT---NTGTVKMLPPLETPLESQSAIFVVSREYVGYVLQNEKIQKLMWAQDTYSPDEYEWAT : 325
IGnt : VLEPAHAIGRTKRYVHQEHLGKELSYVIRJTALKPEPPHNLTIYFGSAYVALSREFFANFVLHDEPRAVDLLQMSKDTFSPDEHEFMT : 301

C2/4Gnt : LQARWMPGSPVNPHPKYIISDMTSTARLVKWOQHECDIDKCAPYAFCSGIHQRAFCVYAGDLNWNHQNHHLLANKFDPKVDNA : 420
C2Gnt : IQRIPEVPGSLPASHKYIDLSDNQAVARFVKWQYFEGDVSKGATYPPCDGCVHVRVSCIIFGAGDLNWNHQRKHLFANKFDDVDLFA : 410
IGnt : LNRIFGVPGSMNP-----ASWTIGNLRAIKWSDME--DRHGG-----CHGHYVHGICLYGNGLKMLVNSPSPSFANKFELNTYPLT : 374

C2/4Gnt : LQCEERYRYKAIYGTETL----- : 438
C2Gnt : IQCLDEHURHKAETLKH----- : 428
IGnt : VECLELRHRERTLNQSETAIQPSWYF----- : 400

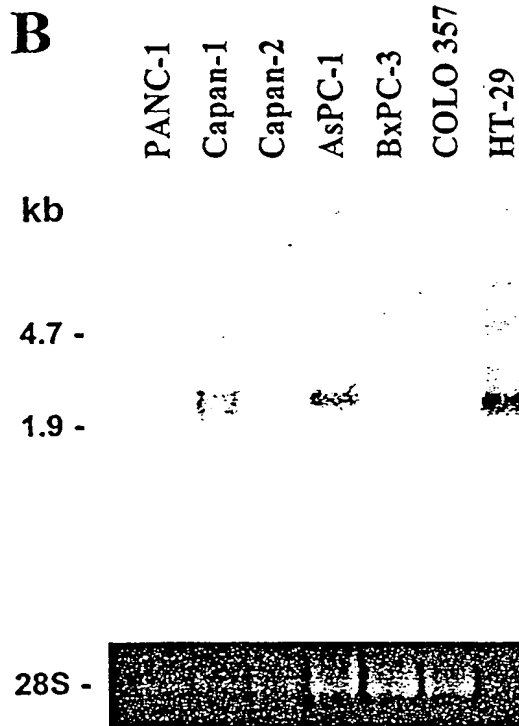
Fig. 4A



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Fig. 4B



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Fig. 5

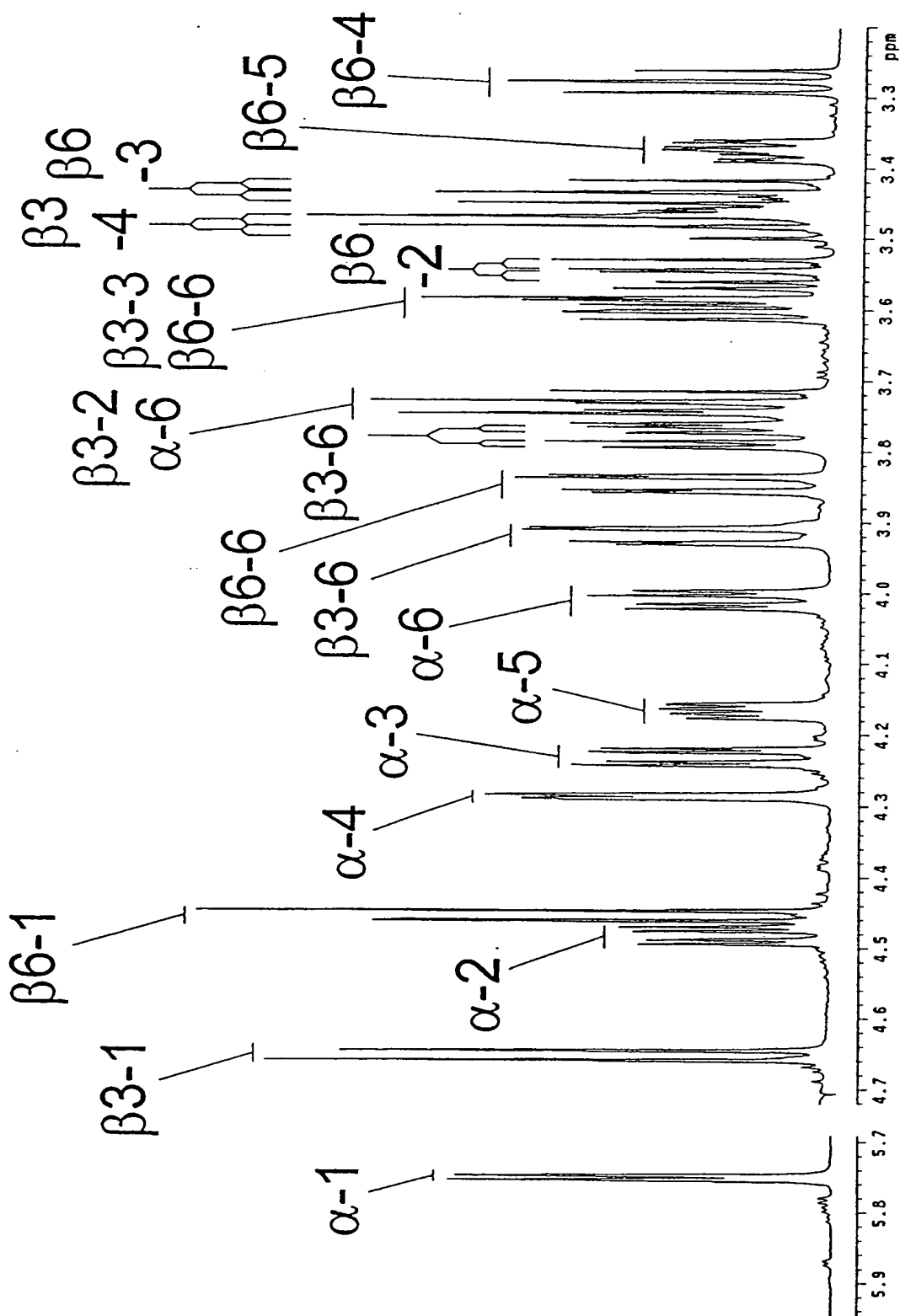


Fig. 6

FIG. 6

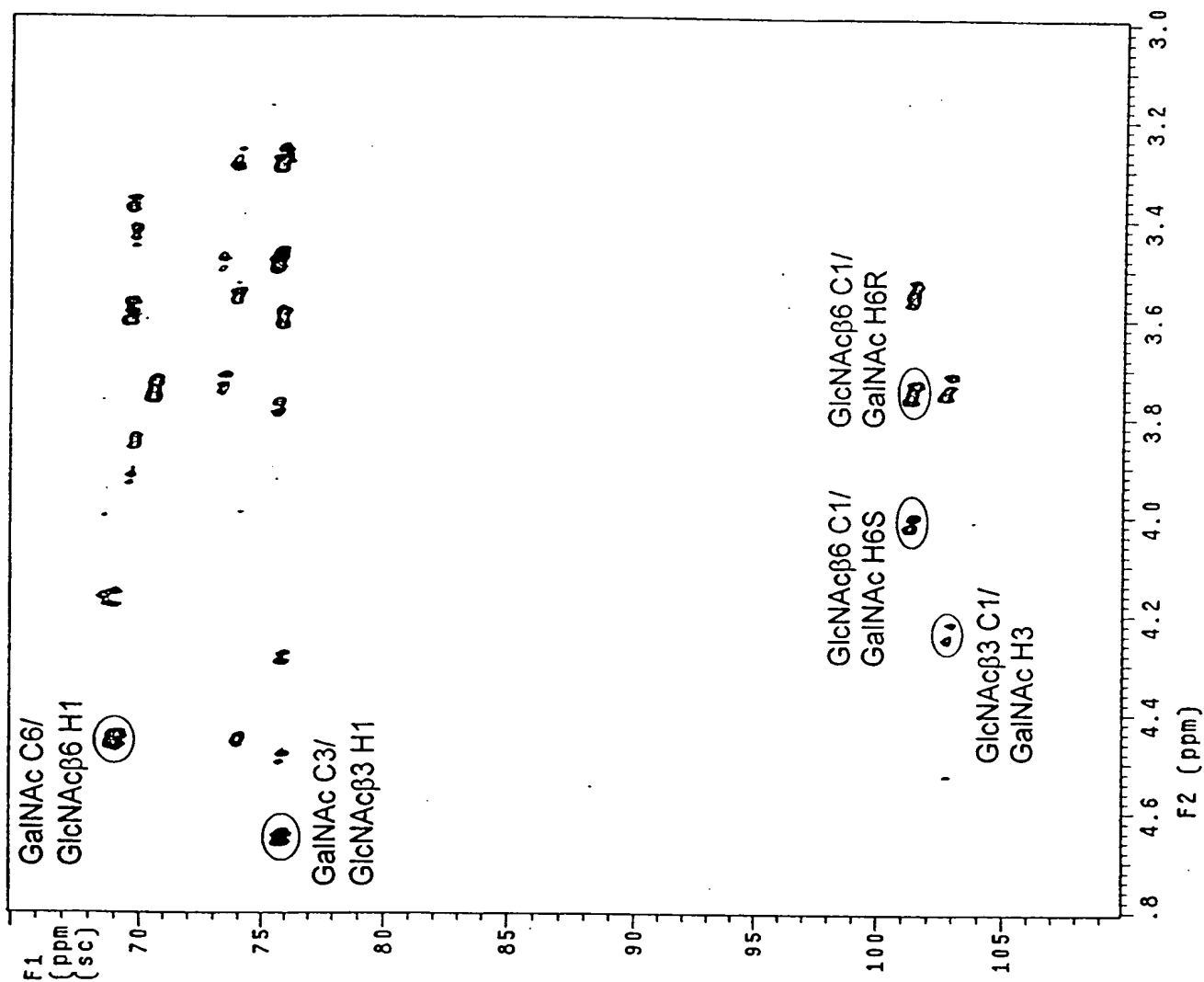
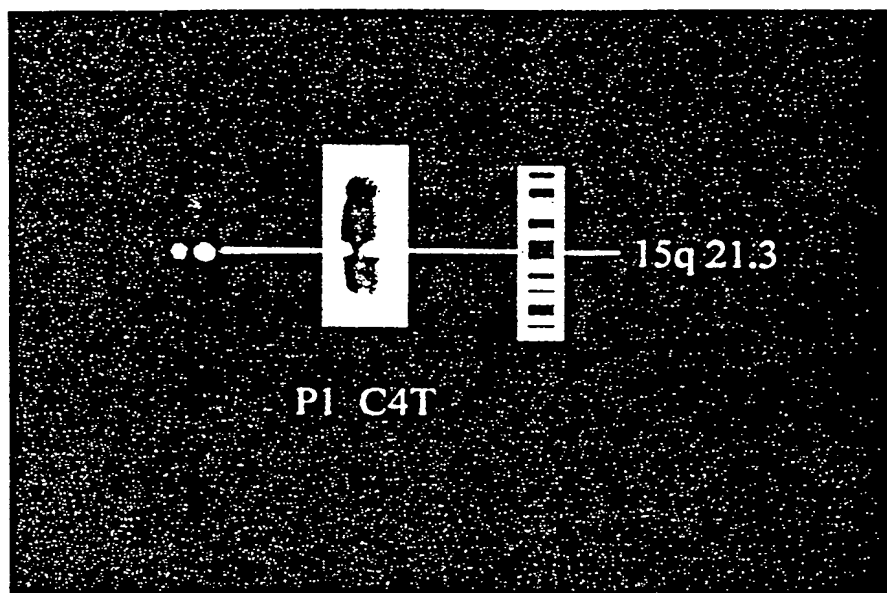
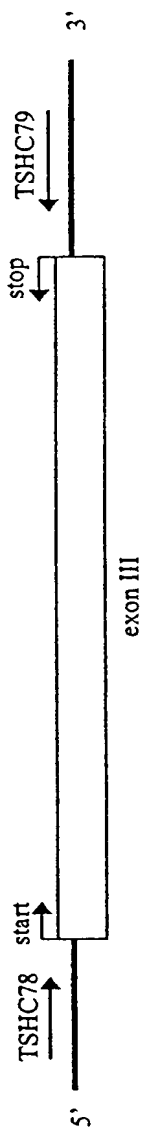


Fig. 7



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C2/4GnT



TSHC78: 5'-GCTCGGTCCTCCACCTGTCTCC-3'

TSHC79: 5'-CCACAGGTAGCAACGCTCTCA-3'

Fig. 8